

STATE OF MARYLAND DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BUILDING ANNAPOLIS. MARYLAND 21401

TO: Bill Yanovitch

FROM: George Harman

VIA: Paul Slunt 7.5.

DATE: July 14, 1975

SUBJECT: Biological conditions of Mill Creek in the Little Elk Creek

drainage basin.

In response to Mr. Levandowski's memorandum to Pnul Slunt dated June 19, 1975, a biological survey of the watershed drains the former disposal site of the Galaxy Chemical Co. was and on July 2, 1975.

The data from this survey when compared with the data from previous surveys (Sept. and Nov. 1974) indicates that the condition of the streams has remained static. The continued presence of the pollution tolerant midge Chironomus sp. at stations B-1 and B-1A and the absence of a diverse fish population at station M-1 indicates that a polluted condition exists.

In view of the continuing seepage of chemicals from the hillside above station B-1 (see map) it appears that the polluted condition of Mill Creek will probably continue for several years unless some measures are taken to control or treat the seepage.

Attached please find the data from this survey and a map of the sampling locations. Please advise if you have any questions.

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MACROIMVERTEBRATE DATA

	No. of Organisms per Surgle (3 sq. ft.)					
ORGANISMS	B-1	STATIONS B-1A	B-2	M-1		
Chironomidae (midges) Chironomus sp. Pentaneurini Procladius sp. Tribeles sp. Polypedilum sp.	1,326	2,200 24 8	10	**************************************		
Tipulidae (crane flies) Limonia sp. Tipula sp. Dicronota sp. Erioptera sp. Pilaria sp.	13	2 2	1 1	1		
Tabanidae (horse flies) Chrysops sp.		2		2		
Culicidae (mosquitoes) <u>Aedes</u> sp.	4	-		- 4 222		
Ptychopteridae (phantom crane) flies Bittacomorpha sp.	2		*****			
Simuliidae (black flies) Simulium sp.			56	5		
Muscidae (house flies) <u>Lispe</u> sp.		2	****	P4898		
Hydropsychidae (caddis flies) <u>Cheumatopsyche</u> sp. <u>Hydropsyche</u> betteni <u>Hydropsyche</u> simulans	2022 2022 2022 2022	80888 80888 80888	56	38 38		
Perlodidue (stone flies) <u>Tsoperlo</u> sp.			8			
Cordulegaeteridae (dragenflies <u>Cordulegaeter</u> sp. <u>Boyeriu</u> sp.) 	88888 88888	6 1	1		
Dytiscidue (diving beetles) Acilius sp.	1		ARANA			
Oyrinidae (whirlight heetles) <u>Dingulus</u> sp.	#####	000	091	MANAN		

MACROINVERTEBRATE DATA (con't)

ORJANISMS		B=1.	2-11	3-2	14 - :L
Elmidae (riffle beetles) Macronychus sp.	,		~~~~	1	
Sialidae (alder flies) <u>Sialis</u> sp.		*****	10	2	1,
Corydalidae (fish flies) Chauloides sp.			, ****	51	4
Tubificidae <u>Tubifex</u> sp.		PMP=19	20		3

FISH DATA

150 feet sampled at station N-1

American cel Anguilla rostrata la Least Brook lamprey Lampetra accyptera 10

Musyland Sant & Conviliarade Company MOV. 25, 1971 + JULY 2, 1975 SAMI 1200 Moule William Span SETTLING